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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.
08/813,32	23 03/10/	97 BALTIMORE	D	50659/JPW/JM

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ARTUNIT PAPER NUMBER

1642

DATE MAILED: 05/23/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trad marks

Office Action Summary

Application No. 08/813,323

Baltimore et al

Examiner

Minh-Tam Davis

Art Unit 1642



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	The MAILING DATE of this communication appears	s on the cover	sheet with	the corres		
A SH THE N - Exter af - If the be - If NO co - Failur - Any	for Reply ORTENED STATUTORY PERIOD FOR REPLY IS SE MAILING DATE OF THIS COMMUNICATION. The sions of time may be available under the provisions of 37 of the SIX (6) MONTHS from the mailing date of this communical period for reply specified above is less than thirty (30) days considered timely. Operiod for reply is specified above, the maximum statutory operiod for reply is specified above, the maximum statutory operiod for reply within the set or extended period for reply will, the reply received by the Office later than three months after the reply attent term adjustment. See 37 CFR 1.704(b).	CFR 1.136 (a). lication. /s, a reply within / period will appl	In no event, the statutor y and will ex	however, i y minimun pire SIX (6	may a reply be timely filed n of thirty (30) days will 6) MONTHS from the mailing date of the come ABANDONED (35 U.S.C. § 133).	
Status						
1) 💢	Responsive to communication(s) filed on Mar 16,				•	
2a) 🗌	This action is FINAL . 2b) 💢 This ac	ction is non-fin	nal.			
3) 🗆	Since this application is in condition for allowance closed in accordance with the practice under $Ex\ p$	•		•		
Disposi	tion of Claims					
4) 💢	Claim(s) 3, 4, and 92			is/are	e pending in the application.	
4	la) Of the above, claim(s)			is/ar	e withdrawn from consideration.	
5) 🗆	Claim(s)	···			is/are allowed.	
6) 💢	Claim(s) 3, 4, and 92	**************************************			is/are rejected.	
7) 🗆	Claim(s)				is/are objected to.	
8) 🗆	Claims	a	re subject	to restric	tion and/or election requirement.	
Applica 9) □	tion Papers The specification is objected to by the Examiner.					
10)□	The drawing(s) filed on is/ar	e objected to	by the Exa	miner.		
11)	The proposed drawing correction filed on			•	b) ☐ disapproved.	
12)	The oath or declaration is objected to by the Exam	niner.				
13) ☐ a) ☐	under 35 U.S.C. § 119 Acknowledgement is made of a claim for foreign particle. All b) Some* c) None of: 1. Certified copies of the priority documents has copies of the priority documents has Copies of the certified copies of the priority of application from the International Bure	ve been receive been received	ved. ved in Appl ve been re	ication N	lo	
*S∈ 14)□	ee the attached detailed Office action for a list of the Acknowledgement is made of a claim for domestic		•		e).	
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Attachm 15\∇\N	ent(s) otice of References Cited (PTO-892)	18\	Summan: IDTO	L4131 Dama-	No(e)	
	otice of Draftsperson's Patent Drawing Review (PTO-948)	18) Interview				
	formation Disclosure Statement(s) (PTO-1449) Paper No(s).	20) Cther:				

Page 2

Art Unit: 1642

Effective February 7, 1998, the Group Art Unit location has been changed, and the examiner of the application has been changed. To aid in correlating any papers for this application, all further correspondence regarding this application should be directed to Minh-Tam Davis, Group Art Unit 1642.

The request filed on 03/16/2001 for a Continued Prosecution Application (CPA) under 37 CFR 1.53(d) based on parent Application No: 08/813323 is acceptable and a CPA has been established. An action on the CPA follows.

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Accordingly, claims 3, 4, 92 are being examined.

The following are the remaining rejections.

REJECTION UNDER 35 USC 112, FIRST PARAGRAPH, NEW MATTER, NEW REJECTION

Claims 3, 4, 92 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

Claims 3, 4, 92 are drawn to a protein which comprises an amino acid sequence which a) is included in SEQ ID NO:1, b) has at its carboxy terminus a proline as shown at position number

Application/Control Number: 08/813323

Art Unit:

567 of SEQ ID NO:1, c) comprises continuous amino acids as shown in SEQ ID NO:1 between the proline at position number 567 and the serine at position number 385, and d) does not extend at its amino terminus beyond the serine shown in SEQ ID NO:1 at position number 324.

The specification discloses a protein comprising CRAF1 truncated by from about 323 to about 414 amino acid residues at the amino terminus (p.8, first paragraph).

Thus although the specification discloses truncation spanning from amino acid 323 to amino acid 414, the specification does not disclose nor contemplates truncation at the specific amino acid number 385.

REJECTION UNDER 35 USC 112, FIRST PARAGRAPH, ENABLEMENT, NEW REJECTION

Claims 3, 4, 92 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

Claims 3, 4, 92 are drawn to variants of a protein which comprises an amino acid sequence which a) is included in SEQ ID NO:1, b) has at its carboxy terminus a proline as shown at position number 567 of SEQ ID NO:1, c) comprises continuous amino acids as shown in SEQ ID NO:1 between the proline at position number 567 and the serine at position number 385, and d)

Application/Control Number: 08/813323

Art Unit:

does not extend at its amino terminus beyond the serine shown in SEQ ID NO:1 at position number 324. Said variants consist of substitutions wherein valine is substituted for glycine or vice versa.

The specification discloses that conservative substitutions include the substitution of one amino acid for another with similar characteristics, such as substitution of valine for glycine (p. 8, second paragraph). There is no disclosure whether there is retention of the activity of the claimed variant proteins. Although conservative substitutions increase the chance of having less effect on the activity of the protein, it is unpredictable which amino acid at a certain position could be subtituted even by conservative substitution. For example, Straub P et al, 1993, J Biol Chem 268(29): 21997-2003, teach that conservative substitutions of valine for glycine at positions 111 and 117 of cytochrome P450 2C2 result in about 50- and 7-fold reduction of activity, respectively. Kouklis PD et al, 1993, J Cell Science, 106(pt 3): 919-28, teach that a single exchange of glycine 450 of the intermediate filament protein vimentin with valine strongly interfers with the normal assembly of the intermediate filaments.

In view of the above, it would be undue experimentation for one of skill in the art to practice the claimed invention.

REJECTION UNDER 35 USC 102

Rejection under 35 USC 102(b) of claims 3, 4, and 92, pertaining to anticipation by Sato et al remains for reasons already of record in paper No.21.

Application/Control Number: 08/813323

Art Unit:

Applicant amends claim 92 to recite a protein which comprises an amino acid sequence which a) is included in SEQ ID NO:1, b) has at its carboxy terminus a proline as shown at position number 567 of SEQ ID NO:1, c) comprises continuous amino acids as shown in SEQ ID NO:1 between the proline at position number 567 and the serine at position number 385, and d) does not extend at its amino terminus beyond the serine shown in SEQ ID NO:1 at position number 324.

Applicant argues that the TRAF domain of amino acids 384-540 taught Sato et al is not the same as the claimed protein, because the amino acid 384 of the sequence taught by Sato et al is the same as amino acid 386 of SEQ ID NO:1.

Applicant's arguments set forth in paper No.23 have been considered but are not deemed to be persuasive for the following reasons:

The protein comprising residues 363-543 taught by Sato et al meets all the limitation of the claims. Said protein comprises an amino acid sequence which a) is included in SEQ ID NO:1, b) has at its carboxy terminus a proline as shown at position number 567 of SEQ ID NO:1, c) comprises continuous amino acids as shown in SEQ ID NO:1 between the proline at position number 567 and the serine at position number 385, and d) does not extend at its amino terminus beyond the serine shown in SEQ ID NO:1 at position number 324.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Minh-Tam B. Davis whose telephone number is (703) 305-2008. The

Art Unit:

examiner can normally be reached on Monday-Friday from 9:30am to 3:30pm, except on Wesnesday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tony Caputa, can be reached on (703) 308-3995. The fax phone number for this Group is (703) 308-4227.

Any inquiry of a general nature or relating to the status of thisplication or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0916.

Minh-Tam B. Davis

May 15, 2001

SUSAN UNGAR, PH.D PRIMARY EXAMINER